Applicant 3M INNOVATIVE PROPERTIES COMPANY et al			
International application No. PCT/US2004/032616	International filing dat 01 October 20	e (day/month/year) 04 (01.10.2004)	Priority date (day/month/year) 03 October 2003 (03.10.2003)
Applicant's or agent's file reference 58915WO006		· · · · · · · · · · · · · · · · · · ·	IMPORTANT NOTICE
Date of mailing (day/month/year) 13 April 2006 (13.04.2006)		APR 2 6 2006 D.A. ERSFELD	
PCT NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY) (PCT Rule 44bis.1(c))		To: RESELD, Dean, A. Office of Intellectual Post Office Box 33427 Saint Paul, Minnesota 55133- ETATS-UNIS D'AMERIQUE	

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

T. VUE

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APR 2 5 2006

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Athina Nickitas-Etienne

Facsimile No.+41 22 740 14 35 Form PCT/IB/326 (January 2004)

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Facsimile No.+41 22 338 89 95

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## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 58915WO006	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2004/032616	International filing date (day/month/year) 01 October 2004 (01.10.2004)	Priority date ( <i>day/month/year</i> ) 03 October 2003 (03.10.2003)	
International Patent Classification See relevant information in For	(8th edition unless older edition indicated) m PCT/ISA/237		
Applicant 3M INNOVATIVE PROPERTIE	S COMPANY	<u></u>	

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the
	International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

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3.	This report contains	indications relating to t	he following items:
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Box No. I	Basis of the report
Box No. II	Priority
Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
Box No. IV	Lack of unity of invention
Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
Box No. VI	Certain documents cited
Box No. VII	Certain defects in the international application
Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis*.2).

	Date of issuance of this report 03 April 2006 (03.04.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Athina Nickitas-Etienne
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 89 95

Form PCT/IB/373 (January 2004)

PATENT COOPERATION	TREATY
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From th			PATENT COOP	CRATION TR	LATY		
To:	NATIONAL SEAF	CHING AUT	HORITY		DOT		
DEAN A. ERSFELD OFFICE OF INTELLECTUAL PROPERTY COUNSEL			PCT	RECID 20 APR	2005		
1 2051	OFFICE BOX 334 PAUL, MN 551	27		33.07	RITTEN OPINION	WIPO	PC
	TTOD, MIN 33	133-5427		INTERNAT	ONAL SEARCHIN	GAUTHORITY	
					(PCT Rule 43bis.)	1)	
				Date of mailing (day/month/year)	18 APR 2		7
Applica	ant's or agent's file	reference		FOR FURTHER	ACTION	00.7	-
58915W					See paragraph 2 below		
Internat	tional application N	ło.	International filing date	(day/month/year)	Priority date (day/mon	th/year)	-
PCT/US	S04/32616		01 October 2004 (01.1)	0.2604)	03 October 2003 (03.1	•	
			or both national classific	ation and IPC			-
IPC(7):	A61K 31/4745, 31	1/495, 31/506,	31/5377, 31/541, 31/55	1; C07D 471/04, 401	/14, 405/14; A61P 37/0;	2 and US CL:	
Applicar		<u>.4</u> 0, 214.03, 2	17.07, 273, 228.5; 546/8	2; 544/126, 60, 361;	540/575, 585, 597		ļ
3M INO	VATIVE PROPE	RTIES COMB	4 NIW				
							]
1. This	s opinion contains i	indications rela	ating to the following iter	ns:			]
	Box No. I						
	-	Basis of the	opinion				
	Box No. II	Priority					
	Box No. III	Non-establis	hment of opinion with re	gard to novelty, inver	ntive step and industrial	applicability	
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain docu		11 0 04			
	Box No. VII	Certain defe	cts in the international ap				
$\square$			-	-			
<u> </u>			vations on the internatio	nal application			
	THER ACTION						
Autho	ority other than thi	s one to be the	nary examination is made Authority ("IPEA") ex PIPEA and the chosen I nal Searching Authority	PEA has notified the	lot apply where the ap		
mailin		A/220 or befo	considered to be a writte e appropriate, with ame are the expiration of 22 m A/220.				
	urther details, see n						
lame and i	mailing address of	the ISA/ US		Authorized officer			
M	fail Stop PCT, Atta: commissioner for Pate	ISA/US		Evelyn Huang	y Palat		
P.	.O. Box 1450 lexandria, Virginia 2			arony in Theating	7. Robert	por 1	
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International application No.

PCT/US04/32616

Box N	Vo. I Basis of this opinion
	opinion
1. With it wa	regard to the language, this opinion has been established on the basis of the international application in the language in whice s filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language $\frac{1}{23.1(b)}$ , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:
а.	type of material
	a sequence listing
	table(s) related to the sequence listing
b,	format of material
	in written format
	in computer readable form
c.	time of filing/fornishing
	contained in international application as filed.
1	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
ť	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been ited or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
Addition	al comments:
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Form PCT/ISA/237(Box No. I) (January 2004)

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International application No.

PCT/US04/32616

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
1. The questions whether the claimed invention appears to be nevel to involve an invention attends to be
industrially applicable have not been examined in respect of:
the entire international application
Claims Nos. 5-10,14,21,25,34,38,41,64,65 and 76-90
because:
the said international application, or the said claim Nos relate to the following subject matter which does not require an international preliminary examination (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nos. <u>5-10,14.21,25.34,38.41,64.65</u> and 76-90 are so unclear that no meaningful opinion could be formed (specify):
They are improperly multiply dependent claims. PCT Rule 6.4 (a).
the claims, or said claims Nes are so inadequately supported by the description that no meaningful opinion could be formed.
no international search report has been established for said claims Nos.
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
the written form has not been furnished
does not comply with the standard
the computer readable form has not been furnished
does not comply with the standard
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

Form PCT/ISA/237 (Box No. III) (January 2004)

International application No.

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PCT/US04/326

HVIERIVATIONAL SEARCHING AUTHORITY	PCT/US04/32616
Box No. IV Lack of unity of invention	
<ol> <li>In response to the invitation (Form PCT/ISA/206) to pay additional fees         <ul> <li>paid additional fees</li> <li>paid additional fees under protest</li> <li>not paid additional fees</li> </ul> </li> <li>This Authority found that the requirement of unity of invention is not control to pay additional fees.</li> <li>This Authority considers that the requirement of unity of invention in accordant complied with         <ul> <li>complied with for the following reasons:</li> </ul> </li> </ol>	omplied with and chose not to invite the applicant nee with Rule 13.1, 13.2 and 13.3 is
See the lack of unity section of the International Search Report(Form PCT/ISA	A/210)
<ul> <li>4. Consequently, this opinion has been established in respect of the following parts of all parts.</li> <li>the parts relating to claims Nos</li> <li>orm PCT/ISA/237 (Box No. IV) (January 2004)</li> </ul>	of the international application:

International application No. PCT/US04/32616 ς.

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Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			•
Novelty (N)		Please See Continuation Sheet       YE         Please See Continuation Sheet       NO	-
Inventive step (IS)		Please See Continuation Sheet YES Please See Continuation Sheet NO	5
Industrial applicability (IA)		Please See Continuation Sheet YES Please See Continuation Sheet NO	3

2. Citations and explanations:

Claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63, and 66-75 meet the criteria set out in PCT Article 33(2)-(3), because the closest prior art, US 6,200,592 B1, only teaches alkoxy, and does not teach or fairly suggest the instant -O-R<sub>3</sub> substituent on the imidazoquinotine.

Claims 91-93 meet the criteria set out in PCT Article 33(2)-(3), because the closest prior art, US 4,698,348 A, only teaches methoxy, and does not teach or fairly suggest the instant -O-R<sub>3</sub> substituent on the initial acquinoline.

Claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63, 66-75, and 91-93 meet the criteria set out in PCT Article 33(4), and thus find industrial applicability because the subject matter claimed can be made or used in the pharmaceutical industry as immunomodulating agent in treatment of diseases.

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/32616

### Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

#### V.1. Reasoned Statements:

The opinion as to Novelty was positive (Yes)with respect to claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63, 66-75, 91-93

The opinion as to Novelty was negative (No) with respect to claims NONE

The opinion as to Inventive Step was positive (Yes) with respect to claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39-40, 42-63, 66-75, 91-93

The opinion as to Inventive Step was negative(NO) with respect to claims NONE

The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63, 66-75, 91-93

The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

Form PCT/ISA/237 (Supplemental Box) (January 2004)